

Certificate of Analysis

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Product Name: Methylnaltrexone bromide

Catalog No.: 6109

Batch No.: 1

CAS Number: 73232-52-7

EC Number: 615-932-9

IUPAC Name: 17-(Cyclopropylmethyl)-4,5 α -epoxy-3,14-dihydroxy-17-methyl-6-oxomorphinanium bromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆BrNO₄·½H₂O

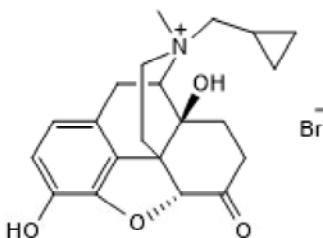
Batch Molecular Weight: 445.35

Physical Appearance: Off White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.64	6.11	3.15
Found	56.81	5.92	3.18

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 17-(Cyclopropylmethyl)-4,5 α -epoxy-3,14-dihydroxy-17-methyl-6-oxomorphanium bromide

Description:

Peripherally restricted μ -opioid antagonist. Antagonizes the effects of morphine (Cat. No. 5158) on contraction of isolated guinea pig ileum. Quaternary derivative of naltrexone (Cat. No. 0677).

Physical and Chemical Properties:

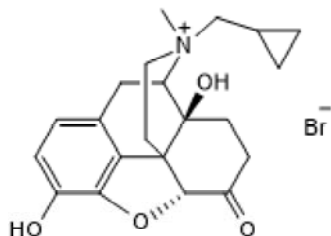
Batch Molecular Formula: C₂₁H₂₆BrNO₄·½H₂O

Batch Molecular Weight: 445.35

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

INFORMATION FOR CUSTOMERS IN THE USA ONLY

This product is a Schedule II DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

References:

Valentino *et al* (1981) Quaternary naltrexone: evidence for the central mediation of discriminative stimulus effects of narcotic agonists and antagonists. *J.Pharmacol.Exp.Ther.* **217** 652. PMID: 6262493.

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